

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	127	156/345.11 156/345.18 156/345.17	USPAT	OR	OFF	2006/11/30 10:22
S2	733	134/113	USPAT	OR	OFF	2006/06/08 14:01
S3	176	S2 and (wafer semiconductor)	USPAT	OR	OFF	2005/07/05 15:32
S4	38	torek-\$ .in. morgan-jonathan.in. morgan-paul.in.	USPAT	OR	OFF	2005/07/05 15:33
S5	11	("4517849"   "5431861"   "5598316"   "5803982"   "5868855"   "6124158"   "6132629"   "6145519"   "6162629"   "6273108"   "6274506").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/07/05 15:40
S6	15	(("6,758,938") or ("6,645,874") or ("6,315,858") or ("6,274,506") or ("6,273,108") or ("6,240,933") or ("6,197,123") or ("6,145,519") or ("6,132,629") or ("6,124,158") or ("6,029,527") or ("5,868,855") or ("5,803,982") or ("5,598,316") or ("5,431,861") or ("4,517,849")).PN.	USPAT	OR	OFF	2005/12/22 14:30
S7	898	S1 S2 S3 S4 S5 S6	USPAT	OR	OFF	2005/07/05 15:42
S10	2019	ozone same (wafer semiconductor)	USPAT	OR	OFF	2005/07/05 15:47
S11	33	S10 and (rotator rotor)	USPAT	OR	OFF	2005/07/05 15:46
S12	596	(wafer semiconductor) same pulsat\$3	USPAT	OR	OFF	2005/07/05 15:46
S13	23261	(wafer semiconductor) same puls\$3	USPAT	OR	OFF	2005/07/05 15:46
S14	11928	(wafer semiconductor) with puls\$3	USPAT	OR	OFF	2005/07/05 15:46
S15	857	(S14 S13) and (rotator rotor)	USPAT	OR	OFF	2005/07/05 15:46
S17	1127	ozone with (wafer semiconductor)	USPAT	OR	OFF	2005/07/05 15:48
S18	127	156/345.11 156/345.18 156/345.17	USPAT	OR	OFF	2005/07/06 12:45
S19	733	134/113	USPAT	OR	OFF	2005/07/06 12:45
S20	176	S19 and (wafer semiconductor)	USPAT	OR	OFF	2005/07/06 12:45
S21	38	torek-\$ .in. morgan-jonathan.in. morgan-paul.in.	USPAT	OR	OFF	2005/07/06 12:45
S22	11	("4517849"   "5431861"   "5598316"   "5803982"   "5868855"   "6124158"   "6132629"   "6145519"   "6162629"   "6273108"   "6274506").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/07/06 12:45

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S23	15	("6,758,938") or ("6,645,874") or ("6,315,858") or ("6,274,506") or ("6,273,108") or ("6,240,933") or ("6,197,123") or ("6,145,519") or ("6,132,629") or ("6,124,158") or ("6,029,527") or ("5,868,855") or ("5,803,982") or ("5,598,316") or ("5,431,861") or ("4,517,849")).PN.	USPAT	OR	OFF	2005/07/06 12:45
S24	898	S18 S19 S20 S21 S22 S23	USPAT	OR	OFF	2005/07/06 12:45
S25	61	S24 and (rpm "revolution per minute")	USPAT	OR	OFF	2005/07/06 13:35
S26	33	S24 and ("duty cycle" pulsat\$3)	USPAT	OR	OFF	2005/07/06 13:38
S27	23261	(wafer semiconductor) same puls\$3	USPAT	OR	OFF	2005/07/06 13:40
S28	11928	(wafer semiconductor) with puls\$3	USPAT	OR	OFF	2005/07/06 13:40
S29	857	(S28 S27) and (rotator rotor)	USPAT	OR	OFF	2005/07/06 13:40
S30	190	S29 and (rpm "revolution per minute")	USPAT	OR	OFF	2005/07/06 15:36
S31	12759	"micron technology"	USPAT	OR	OFF	2005/07/06 15:36
S32	29	S31 and pulsat\$5	USPAT	OR	OFF	2005/07/06 15:36
S33	0	134/1.3,1.2,89,103.2,119,131,149	USPAT	OR	OFF	2005/07/07 13:29
S34	1761	(134/1.3,1.2,89,103.2,119,131,149).ccls.	USPAT	OR	OFF	2005/07/07 13:29
S35	974	2161/dig41 (438/745,748).ccls.	USPAT	OR	OFF	2005/07/07 13:30
S36	2683	S34 S35	USPAT	OR	OFF	2005/07/07 13:30
S37	6	"6145519".pn. "6274506".pn. "6124158".pn. "6273108".pn. "5598316".pn. "6132629".pn.	USPAT	OR	OFF	2005/07/08 11:08
S38	0	"6145519".pn. and (pump puls\$3)	USPAT	OR	OFF	2005/07/08 12:01
S39	0	"6124158".pn. and (pusl\$3 pump)	USPAT	OR	OFF	2005/07/08 12:01
S40	1	"6124158".pn. and (puls\$3 pump)	USPAT	OR	OFF	2005/07/08 12:05
S41	14042	pump\$3 with puls\$3	USPAT	OR	OFF	2005/07/08 12:05
S42	560	S41 same (wafer semiconductor)	USPAT	OR	OFF	2005/07/08 12:05
S43	171	S42 and (spray\$3 etch\$3 clean\$3)	USPAT	OR	OFF	2006/06/08 13:59
S44	0	(156/345.11 and(speed velocity)with(vari\$3chang\$3adjust\$4)).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/12/22 14:31
S45	22	156/345.11 and(speed velocity)with(vari\$3chang\$3adjust\$4)	US-PGPUB; USPAT	OR	OFF	2006/11/30 13:03
S46	1625	156/345.55 118/730	US-PGPUB; USPAT	OR	OFF	2005/12/22 14:34
S47	170	S46 and(speed velocity)with(vari\$3chang\$3adjust\$4)	US-PGPUB; USPAT	OR	OFF	2005/12/22 14:35

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S48	14776	pump\$3 with puls\$3	USPAT	OR	OFF	2006/06/08 13:59
S49	607	S48 same (wafer semiconductor)	USPAT	OR	OFF	2006/06/08 13:59
S50	196	S49 and (spray\$3 etch\$3 clean\$3)	US-PGPUB; USPAT	OR	OFF	2006/06/08 13:59
S51	1733	134/113 134/1.2	US-PGPUB; USPAT	OR	OFF	2006/06/08 14:01
S52	191	S51 and puls\$6	US-PGPUB; USPAT	OR	OFF	2006/06/08 14:10
S53	1	"6273108".pn.	US-PGPUB; USPAT	OR	OFF	2006/06/08 14:10
S54	1	"20040103919"	US-PGPUB; USPAT	OR	OFF	2006/11/30 11:23
S55	763	(134/113 134/902 156/345.11) and (rotat\$3 rotary turn\$3 spin\$4) with (chamber\$1 vessel\$1 reactor\$1 bath)	US-PGPUB; USPAT	OR	OFF	2006/11/30 12:06
S56	1064	134/200	US-PGPUB; USPAT	OR	OFF	2006/11/30 12:00
S57	270	S56 and (rotat\$3 turn\$3 spin\$4 pivot\$4) with (vessel chamber reactor bath)	US-PGPUB; USPAT	OR	OFF	2006/11/30 12:00
S58	114	(134/113 134/902 156/345.11) and (vary\$3 chang\$3 independent) with (speed velocity rate) with (motor rotat\$3 turn\$3 spin\$4 twist\$3)	US-PGPUB; USPAT	OR	OFF	2006/11/30 13:06
S59	18	156/345.55 and(speed velocity)with(vari\$3 chang\$3 adjust\$4)	US-PGPUB; USPAT	OR	OFF	2006/11/30 13:03
S60	1773	(etch\$3 clean\$3) same (wafer\$1 semiconductor\$1) and (vary\$3 chang\$3 independent) with (speed velocity rate) with (motor rotat\$3 turn\$3 spin\$4 twist\$3)	US-PGPUB; USPAT	OR	OFF	2006/11/30 13:07